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CONGRESSIONAL SEED DISTRIBUTION, 1901-2.

LETTER

FROM

THE SECRETARY OF AGRICULTURE,

TRANSMITTING

A REPORT ON CONGRESSIONAL SEED DISTRIBUTION FOR THE
FISCAL YEAR ENDED JUNE 30, 1902.

JANUARY 5, 1903.—Referred to the Committee on Agriculture and ordered to be printed.

U. S. DEPARTMENT OF AGRICULTURE,
OFFICE OF THE SECRETARY,
Washington, D. C., September 30, 1902.

SIR: I have the honor to transmit herewith a report upon Congressional seed distribution for the fiscal year ended June 30, 1902, prepared by the Chief of the Bureau of Plant Industry, in compliance with the requirements of the act making appropriations for the Department of Agriculture for the year specified, approved March 2, 1901.

Very respectfully,

JAMES WILSON, *Secretary.*

The SPEAKER OF THE HOUSE OF REPRESENTATIVES.

LETTER OF SUBMITTAL.

U. S. DEPARTMENT OF AGRICULTURE,
BUREAU OF PLANT INDUSTRY,
OFFICE OF THE CHIEF,
Washington, D. C., September 11, 1902.

SIR: In accordance with an order issued by you April 24, 1901, all work connected with the purchase and distribution of valuable seeds was placed in my hands. At that time the contract for the work had been let, but immediate steps were taken to conduct the distribution in such a way as to carry out your general policy of coordinating the various plant problems in the Bureau. Notwithstanding the fact that

the appropriation for seeds was considerably increased, the matter of handling the large quantities required was carried on without any serious delay and with very general satisfaction, as is attested by numerous reports received from Senators, Representatives, and others interested.

The statement transmitted herewith gives information in regard to the general plan of the work and the manner in which the funds were expended. The total appropriation for this work was \$270,000, of which sum \$247,232.12 was expended for seeds, plants, labor, etc., in the Congressional distribution proper, and \$18,463.30 was expended as authorized by law for the introduction and dissemination of rare seeds and plants from foreign countries. The details connected with the introduction and dissemination of rare seeds and plants are omitted here for the reason that they will appear in a separate report.

Respectfully,

B. T. GALLOWAY,
Chief of Bureau.

Hon. JAMES WILSON,
Secretary of Agriculture.

SUMMARY STATEMENT.

The securing of all miscellaneous vegetable and flower seeds and the packeting and mailing of the same were provided for in a contract with the Henry Philipps Seed and Implement Company, of Toledo, Ohio. The contract provided for 37,299,816 packets of vegetable seed and 1,000,568 packets of flower seed, all to be put up or assembled in packages of five packets each and to be mailed under the direction of the Department. Besides this contract, arrangements were made for the handling of cotton seed, tobacco seed, lawn grass seed, sugar beet seed, sorghum seed, forage crop seeds, bulbs, trees, grapevines and plants by the various offices of the Bureau. In the case of all these special seeds, efforts were made to secure varieties of promise and to place them in localities where they would improve the agricultural conditions prevailing therein.

Following is a summarized statement showing the different kinds of seeds, plants, etc., purchased and the cost of the same; also, the cost of labor connected with the work:

Vegetable and flower seed contract with the Henry Philipps Seed and Implement Company.....	\$180,011.80
Cotton seed.....	2,086.50
Lawn grass seed.....	1,050.00
Tobacco seed.....	1,495.65
Bulbs.....	2,772.82
Trees.....	1,100.00
Strawberry plants.....	269.00
Grapevines.....	434.50
Sugar-beet seed.....	1,162.06
Sorghum seed.....	669.58
Alfalfa seed.....	437.00
Alsike clover seed.....	1,834.00
Crimson clover seed.....	1,677.70
Velvet bean seed.....	370.00
Kafir corn seed.....	352.20
Brome grass seed.....	177.50
Seeds for miscellaneous special orders.....	1,000.00

Seeds for Alaska.....	\$454. 80
Seeds for cooperative work carried on by the Agrostologist	442. 50
Miscellaneous seeds	715. 38
Total	198, 512. 99
Total for seeds and plants.....	198, 512. 99
Labor in Washington.....	41, 323. 66
Foreign seed and plant introduction, less salaries in Washington	12, 270. 54
Miscellaneous expenses	13, 588. 23
Balance unexpended to date	4, 304. 58
Grand total	270, 000. 00

CONTRACT FOR VEGETABLE AND FLOWER SEED DISTRIBUTION.

The contract with the Henry Philipps Seed and Implement Company required this firm to furnish certain families, varieties, and quantities of seeds, to put these into packets at a fixed number per pound, to assemble the packets into packages, and to mail the packages on receipt of proper orders.

SEEDS CONTRACTED FOR.

The following table shows the families and varieties of seeds required, the quantities in pounds and bushels, and the number of packets of each variety per pound or bushel:

VEGETABLE SEEDS.

Beet:	Packets to the pound.
6,351 pounds Egyptian.....	64
6,351 pounds Eclipse	64
6,351 pounds Bastian's Red Turnip	64
6,351 pounds Dewing's Blood Turnip.....	64
6,351 pounds Early Edmand.....	64
6,352 pounds Long Dark Blood.....	64
Total packets, 2,438,848.	
Cucumber:	
7,621 pounds Long Green	80
7,621 pounds White Spine	80
7,622 pounds Early Green Prolific.....	80
7,622 pounds Boston Pickling	80
Total packets, 2,438,880.	
Lettuce:	
3,811 pounds Self-Folding White Cos	128
3,811 pounds Hanson.....	128
3,811 pounds B. S. Simpson.....	128
3,811 pounds Crisp as Ice	128
3,810 pounds Early Prize Head.....	128
Total packets, 2,438,912.	
Melon (musk):	
6,097 pounds Paul Rose.....	80
6,097 pounds Osage.....	80
6,097 pounds Banquet	80
6,097 pounds Emerald Gem.....	80
6,098 pounds Rocky Ford.....	80
Total packets, 2,438,880.	
Melon (water):	
6,097 pounds Boss	80
6,097 pounds Mountain Sweet.....	80
6,097 pounds Florida Favorite.....	80
6,097 pounds Rattlesnake.....	80
6,098 pounds Monte Cristo (Kleckley Sweets).....	80
Total packets, 2,438,880.	

		Packets to the pound
Onion:		
5,081 pounds Large Red Wethersfield.....		96
5,081 pounds Yellow Globe Danvers.....		96
5,081 pounds Extra Early Flat Red.....		96
5,081 pounds Australian Brown.....		96
5,081 pounds Yellow Danvers.....		96
Total packets, 2,438,880.		
Parsley:		
12,194 pounds Extra Curled.....		100
12,195 pounds Plain or Single.....		100
Total packets, 2,438,900.		
Parsnip:		
12,194 pounds Hollow Crown.....		100
12,195 pounds Improved Half Long.....		100
Total packets, 2,438,900.		
Radish:		
7,622 pounds Early Scarlet Turnip.....		64
7,622 pounds Early Dark Red.....		64
7,621 pounds Improved Chertier.....		64
7,621 pounds Long White Vienna.....		64
7,621 pounds French Breakfast.....		64
Total packets, 2,438,848.		
Spinach:		
15,243 pounds Curled Savoy.....		80
15,243 pounds Prickly.....		80
Total packets, 2,438,880.		
Squash:		
7,621 pounds Hubbard.....		80
7,621 pounds Boston Marrow.....		80
7,622 pounds Giant Summer Crookneck.....		80
7,622 pounds Giant White Bush.....		80
Total packets, 2,438,880.		
Tomato:		
2,540 pounds Livingston's Beauty.....		240
2,540 pounds Livingston's Perfection.....		240
2,541 pounds New Stone.....		240
2,541 pounds Acme.....		240
Total packets, 2,438,880.		
Turnip:		
12,702 pounds White Dutch.....		64
12,702 pounds White Egg.....		64
12,703 pounds Purple Top Strap Leaf.....		64
Total packets, 2,438,848.		
Bean:		Packets to the bushel.
1,295 bushels Refugee.....		240
1,295 bushels Early Red Valentine.....		240
1,295 bushels Improved Golden Wax.....		240
1,295 bushels Wardwell's Kidney Wax.....		240
1,295 bushels Stringless Green Pod.....		240
1,295 bushels Early Mohawk.....		240
Total packets, 1,864,800.		
Pea:		
1,295 bushels American Wonder.....		240
1,295 bushels Horsford's Market Garden.....		240
1,295 bushels Abundance.....		240
1,295 bushels Pride of the Market.....		240
1,295 bushels McLean's Little Gem.....		240
1,295 bushels McLean's Advancer.....		240
Total packets, 1,864,800.		
Corn:		
1,295 bushels Early Cory.....		240
1,295 bushels Early Minnesota.....		240
1,295 bushels Stowell's Evergreen.....		240
1,295 bushels Crosby's Early.....		240
1,295 bushels Country Gentlemen.....		240
1,295 bushels Ne Plus Ultra.....		240
Total packets, 1,864,800.		
Total packets of vegetable seeds, 37,299,816.		

Flower seeds.

Varieties.	Pounds of seed.	Packets of seed to the pound.	Number of packets.
Alyssum, sweet.....	100	500	50,000
Balsam, double flowering.....	62½	800	50,000
Aster, choice double varieties, mixed colors.....	100	500	50,000
Candytuft, mixed colors.....	100	500	50,000
Canna, mixed, large flowering type.....	390	128	49,920
Dianthus, double, mixed China.....	50	1,000	50,000
Gaillardia, mixed colors.....	62½	800	50,000
Larkspur (Delphinium), mixed colors.....	100	500	50,000
Linum grandiflorum, rubrum.....	125	400	50,000
Marigold, mixed colors (Pot).....	83½	600	50,100
Mignonette, plain.....	83½	600	50,100
Nasturtium, dwarf, mixed colors.....	250	200	50,000
Pansy, German, mixed colors.....	50	1,000	50,000
Petunia, fine mixed colors, hybrid blotched and striped.....	42	1,200	50,400
Phlox drummondii, grandiflora.....	100	500	50,000
Portulaca, single, mixed colors.....	50	1,000	50,000
Stocks, double dwarf German, ten weeks.....	50	1,000	50,000
Sweet peas, mixed colors.....	782	64	50,048
Sweet William, mixed colors.....	100	500	50,000
Zinnia, double, mixed colors.....	100	500	50,000
Total pounds and packets.....	2,781	.....	1,000,568

Grand total packets of vegetable and flower seeds, 38,300,384.

METHODS OF HANDLING.

In order to properly handle the large quantities of seeds required in connection with this work it was essential that a building, conveniently located and properly arranged, should be secured. No such building was available, and consequently arrangements were made by the Henry Philipps Seed and Implement Company with a local firm for the erection of a building according to plans satisfactory to the Secretary of Agriculture. This building was erected near the Department grounds, was well lighted and heated, and in every way adapted to the work. Before the seed work was commenced the various officers necessary for proper supervision were selected and assigned to their respective places. As the seeds were received they were all weighed by a representative of the Department, who also numbered each lot of seed as it came in and drew a sample for test. As soon as each lot of seed was weighed a memorandum statement was made out in triplicate, giving the kind of seed, the name of the consignor, weight, and date of receipt.

One copy of this statement was immediately sent to the office of the Chief of the Bureau, a second copy was sent with a sample for test to the officer in charge of the seed laboratory, and the third copy was held by the weighing clerk for the purpose of entering the records in a book provided for the purpose. Each lot of seed maintained throughout the work the number assigned it, and as reports of tests came in from the seed laboratory they were recorded and the seed marked for approval or for removal from the warehouse, as the case might be. The Department thus had a complete record of all seeds received, the quantity in each lot, and the quality of the sample. The contractor was not allowed to use any lot until it had been reported to be up to standard or until permission had been given by the Chief of the Bureau in cases where the seed did not reach standard in the test. It is the case every year that the contractor is unable to supply all the

seed called for in the contract. This is owing to failure of crops in certain sections where seeds are being grown.

Under the contract, however, the contractor is permitted to substitute other varieties, provided a list of the same is submitted and the substitution is authorized by the Secretary of Agriculture. For the contract for 1899-1900, 96 per cent of the varieties required were furnished, while for the contract of 1900-1901, only 51 per cent of the varieties required were furnished. The Henry Philipps Seed and Implement Company furnished 93 per cent, so it is seen that they were unusually successful in securing the seeds required. So far as practicable, seeds were rejected unless they reached standard in purity and germination, but in some cases where the rejection of a lot would seriously interfere with the progress of the work permission was given, subject to the provisions of the contract, to use the lot, but only where the seed was good enough to give reasonable satisfaction in the open ground. When samples were offered that were too poor to give satisfaction they were rejected.

COMBINATIONS.

The packages when assembled contained the following combinations, except toward the close of the distribution, when it was found necessary to change these somewhat because of the failure of certain crops:

First combination.—Cucumber, watermelon, parsley, radish, pea.

Second combination.—Lettuce, muskmelon, beet, squash, corn.

Third combination.—Spinach, onion, tomato, turnip, bean.

Fourth combination.—Beet, onion, parsley, spinach, squash.

Fifth combination.—Lettuce, muskmelon, parsley, tomato, parsnip.

Sixth Combination.—Cucumber, watermelon, radish, turnip, parsley.

Seventh Combination.—Lettuce, muskmelon, beet, squash, corn, parsnip.

PLAN OF DISTRIBUTING SEED.

In order to carry on the work systematically, and as far as practicable to place the seed in localities where they would do the most good, the country was divided into six divisions, as shown in the accompanying schedule, which was prepared and distributed to all Senators and Members of the House before the work of packeting commenced:

SCHEDULE SHOWING PLAN OF DISTRIBUTING CONGRESSIONAL SEED.

This schedule has been arranged to insure getting the seed into the different States on time. Franks for the States included in a certain division should be on hand before the time specified in the schedule, otherwise the distribution under such franks will be delayed until the next division in order is completed; that is, if the franks for all the States under the fifth division, for instance, are not received by March 22, the seed under these delayed franks will have to be held until after March 31, and in the same way for the other divisions. It is urgently hoped, therefore, that we may be authorized to send at once your seed slips referred to in the accompanying letter so that they may be addressed and returned as soon as possible.

States.	Divisions.	All franks received by—	Will be sent out by—
Alabama	First.....	Dec. 1, 1901	Dec. 20, 1901
Arizona			
California			
Florida			
Georgia			
Hawaii			
Louisiana			
Mississippi			
New Mexico			
South Carolina			
Texas	Second	Dec. 21, 1901	Dec. 31, 1901.
Arkansas			
North Carolina			
Oklahoma Territory			
Oregon			
Tennessee			
Washington			
Kansas			
Kentucky			
Maryland			
Missouri	Third.....	Jan. 2, 1902	Jan. 18, 1902.
Virginia			
West Virginia			
Colorado			
Delaware			
Illinois			
Indiana			
Iowa			
Nebraska			
Nevada			
New Jersey	Fourth	Jan. 19, 1902	Feb. 23, 1902.
Ohio			
Pennsylvania			
Utah			
Connecticut			
Massachusetts			
Michigan			
Minnesota			
New York			
Rhode Island			
South Dakota	Fifth	Feb. 24, 1902	Mar. 22, 1902.
Wisconsin			
Idaho			
Maine			
Montana			
New Hampshire			
North Dakota			
Vermont			
Wyoming			
	Sixth	Mar. 23, 1902	Mar. 31, 1902.

Owing to the notices sent out, addressed franks commenced to come in early in the year, and as they were received they were placed on the proper section shelf and were taken out in practically the order laid down in the schedule above given. The work of packeting began on November 12, 1901, and the first packages were mailed on December 2, 1901. Practically all of the packeting was done by machines, and in order to see that the operation of filling was carried on properly an officer of the Department was kept constantly stationed in the room, and was charged with keeping a record of the number of all packets filled and seeing that the weights required by the contract were given. The machines used for the purpose, in addition to filling and sealing the packets automatically, make a record of each packet filled, and from these records the accompanying table, showing the size and number of packets put up per month by all machines, was prepared.

CONGRESSIONAL SEED DISTRIBUTION.

Size and number of packets put up per month as recorded by all machines.^a

Year and month.	Machines at work.	Packets, size No. 1.	Packets, size No. 2.	Packets, size No. 10.	Total num- ber of packets, all sizes.
1901.					
November.....	Nos. 1 to 10.....	1,880,940	585,160	104,300	2,570,400
December.....	.....do.....	2,447,150	2,718,050	472,900	5,638,100
1902.					
January.....	.....do.....	3,502,600	3,146,400	1,227,500	7,876,500
February.....	.....do.....	5,014,100	1,693,300	1,019,300	7,726,700
March.....	.....do.....	2,994,000	3,742,000	1,361,000	8,097,000
April.....	.....do.....	2,422,000	3,609,000	1,481,000	7,512,000
May.....	Nos. 4, 5, and 9.....		23,000	3,000	26,000
Total.....		18,260,790	15,516,910	5,669,000	39,446,700

^a These machines recorded all packets run through them, some of which were necessarily empty. For this reason the number of packets recorded by the machines will be found in excess of the number sent out, as shown in the next table.

As the packets were filled and sealed they were conducted into bins on the floor below, and from these bins were assembled into packages. An officer of the Department was kept constantly at the assembling belts to see that the proper combinations were put up and that the packages were properly sealed. After being sealed and having the addressed franks attached the packages were counted into mail bags and sent to the post-office.

The following table gives the number of packages and packets mailed, as shown by official receipts of the post-office and by the books of the mailing clerk:

Packages and packets of seeds mailed.

Date. ^a	Vegetable.		Flower.	
	Packages.	Packets.	Packages.	Packets.
December 2, 1901, to January 3, 1902.....	750,990	3,754,950		
January 8 to 20, 1902.....	709,343	3,546,715		
January 21 to 25, 1902.....	374,342	1,871,710	35,949	179,745
January 27 to February 8, 1902.....	713,459	3,567,295	10,037	50,185
February 11 to 26, 1902.....	981,968	4,909,840	19,985	99,925
February 27 to March 15, 1902.....	878,648	4,393,240	37,641	188,205
March 17 to 21, 1902.....	453,682	2,268,410	14,998	74,990
March 22 to April 3, 1902.....	815,019	4,075,095	19,420	97,100
April 4 to 16, 1902.....	813,174	4,065,870	45,021	225,105
April 17 to 30, 1902.....	823,493½	4,117,466	17,062½	85,313
April 30, extra on account of combination No. 7.....		729,225		
Total.....	7,314,118½	37,299,816	200,113½	1,000,568

^a The dates given are inclusive.

REPORT OF COMMITTEE ON THE WORK DONE UNDER SEED CONTRACT.

When the work of the contractor was completed a committee consisting of three officers of the Bureau was appointed to examine all the books and accounts and report in full as to whether or not the seed had been furnished according to the contract. The following is a copy of the report of this committee:

WASHINGTON, D. C., June 7, 1902.

DEAR SIR: In response to your letter of May 8, addressed to Messrs. Woods, Corbett, and Bessey, we hand you herewith a report covering our investigations of the

records of the seed distribution for 1901-2, carried on by the Henry Philipps Seed and Implement Company, of Toledo, Ohio. We believe that all essential points have been covered according to instructions in your letter, and we turn over herewith all records, files, and papers which have been submitted to us in this investigation.

Respectfully,

A. F. WOODS,
L. C. CORBETT,
ERNST A. BESSEY,
Committee.

W. I. JOCHUM,
Auditing Clerk.

B. T. GALLOWAY,
Chief Bureau of Plant Industry.

REPORT.

The committee begs to report first that they have examined the records and found them to agree in all particulars.

In Exhibit A, appended to this report, will be found a statement setting forth the varieties of all seed delivered at the warehouse, together with the quantity of each.

Exhibit B, appended to this report, sets forth the total number of packages sent out by the contractor, together with the number of packages and miscellaneous packets turned over to the Department by the contractor at the expiration of his contract period. We found that there were 265,307 packets actually delivered to the Department by the contractor in excess of the contract number required, i. e., 37,299,816.

Exhibit C, attached to this report, gives the results of germination tests of all lots of seeds received at the warehouse.

You will note that there were shipped by the contractor 6,490,731 packages, containing 5 packets each, and 729,225 packages, containing 6 packets each, making a total of 7,219,956 packages, containing a total of 36,829,005 packets, leaving at the close of the contract period 94,162 packages, or 470,810 packets, in the hands of the contractor to be delivered to the Department.

In addition to this number there were, as above stated, 265,307 packets which were not assembled into packages, and these, together with the 94,162 packages above spoken of, were turned over to the Department on April 30, the close of the contract period.

In making an inventory of the seed in the warehouse, it was found that there were—

151 sacks of beans under inspector's No. 282,
24½ sacks of beans under inspector's No. 266,
177 sacks of beans under inspector's No. 279,
21 sacks of beans under inspector's No. 272,

making a total of 373½ sacks, or approximately 747 bushels. There were also 9,537 pounds of sweepings, which were delivered to the chief of Supply Division, C. B. Lower. This excess of 747 bushels of beans is to be accounted for on the ground that the packets of beans and peas were below the weight specified by the contract, so that in putting up the large number of packets required the shortage amounted to the quantity above stated. This seed is now in the warehouse and is the property of the Department.

In addition to this excess, it was found that at the close of the contract period there was in the warehouse the quantities of the seeds named below, which were the property of the contractor, and which have been removed by him, with the exception of 704 pounds of watermelon seed purchased for future distribution by the Department:

Name.	Bushels.	Pounds.	Name.	Bushels.	Pounds.
Lettuce.....	11	Muskmelon.....	.....	84
Watermelon.....	704	Beet.....	.....	365
Parsley.....	202	Parsnip.....	.....	22
Onion.....	330	Radish.....	.....	241
Spinach.....	489	Tomato.....	.....	3
Turnip.....	1,569	Bean.....	32	58

The contract provides, "That all seeds falling 5 per cent below the standard shall, if accepted, be paid for at a price 5 per cent below the price named in this instrument for packeted seeds; for seeds falling 10 per cent below the standard a deduction of 10 per cent shall be made from the contract price, etc." And provides, further, "That in the event of the packeting of any seed falling 25 per cent or more below the standards of germination given in Exhibit B, such seeds shall be forfeited to the United States." And provides, further, "That the amount of all deductions based upon deficiencies in the purity of stock and germinating qualities of the seeds disclosed by or through the tests prescribed in the fourth clause, and all penalties imposed under the provisions of the eighth clause of this treatment, shall be permanently withheld and retained out of the said 10 per cent and shall not be paid at all to the said contracting company, or to its successors or representatives, forever."

The appended Exhibit D gives a statement of the varieties, actual weights of the varieties, and the percentage which they fell below the required standard, together with the deductions from the contract price on such seeds which, according to Exhibit B, should be withheld permanently from the contracting parties. The deductions made on account of seed which fell below the standard amounted to \$3,316.88.

The actual number of packets of flower seed put up by the contractor under the contract for 1901-2 was 1,000,568, of which 967,390 packets were shipped out by the contractor and 33,178 packets were turned over at the close of the contract period, making the total required by the contract.

EXHIBIT A.—*Kind and quantity of seeds furnished by contractor for Congressional seed distribution, 1901-2.*

Bean:		Bushels.	Beet:		Pounds.
Refugee		3, 827	Egyptian		6, 731
Early Red Valentine		3, 609	Eclipse		6, 429
Improved Golden Wax		404	Bastian's Red Turnip		6, 181
Wardwell's Kidney Wax		282	Dewing's Blood Turnip		406
Stringless Green Pod		780	Early Edmand		11, 998
Early Mohawk		945	Long Dark Blood		6, 728
Long Yellow Six Weeks		500			
Refugee Wax		211			38, 473
Giant Stringless Green Pod		947			
Currier's Rust Proof		198			
		11, 703	Cucumber:		
			Long Green		4, 364
			White Spine		10, 180
			Early Green Prolific		8, 782
			Boston Pickling		7, 160
Pea:					
American Wonder		262			30, 486
Hosford's Market Garden		477			
Abundance		466	Lettuce:		
Pride of the Market		1, 053	Self-Folding White Cos		2, 487
McLean's Advancer		363	Hanson		3, 331
Everbearing		994	B. L. Simpson		5, 361
Premium Gem		255	Early Prize Head		3, 945
		3, 870	California Cream Butter		3, 941
					19, 065
Corn:			Muskmelon:		
Early Cory		620	Paul Rose		2, 279
Early Minnesota		641	Osage		1, 506
Stowell's Evergreen		1, 026	Banquet		561
Crosby's Early		1, 226	Emerald Gem		1, 330
Country Gentlemen		772	Rocky Ford		16, 852
Ne Plus Ultra		815	Hackensack, or Turk's Cap		2, 005
Zigzag Evergreen		1, 070	Extra Early Hackensack		2, 001
Old Colony		1, 604	Small Green Nutmeg		4, 036
		7, 774			30, 570

EXHIBIT A.—*Kind and quantity of seeds furnished by contractor for Congressional seed distribution, 1901-2—Continued.*

Watermelon:	Pounds.	Radish—Continued.	Pounds.
Boss.....	1,548	Half Long Dark Scarlet.....	3,898
Mountain Sweets.....	3,823	Scarlet Olive-shaped.....	1,009
Florida Favorite.....	5,397	White Tip Scarlet Turnip....	1,007
Rattlesnake.....	8,097		<u>38,348</u>
Monte Cristo (Kleckley			
Sweets).....	1,764		
Kolb's Gem.....	19,086		
	<u>39,715</u>	Spinach:	
		Curled Savoy.....	9,597
		Prickly.....	15,228
		Bloomsdale.....	6,150
			<u>30,975</u>
Onion:		Squash:	
Large Red Wethersfield.....	5,087	Hubbard.....	1,360
Yellow Globe Danvers.....	5,034	Boston Marrow.....	10,973
Extra Early Flat Red.....	5,178	Giant Summer Crookneck....	568
Australian Brown.....	5,272	Giant White Bush.....	1,208
Yellow Danvers.....	5,164	Mammoth White Bush.....	7,852
	<u>25,735</u>		<u>21,961</u>
Parsley:		Tomato:	
Extra Curled.....	12,205	Beauty.....	553
Plain or Single.....	12,404	Perfection.....	5,231
	<u>24,609</u>	New Stone.....	3,065
		Acme.....	1,316
			<u>10,165</u>
Parsnip:			
Hollow Crown.....	12,196	Turnip:	
Improved Half Long.....	12,215	White Dutch.....	12,714
	<u>24,411</u>	White Egg.....	3,782
		Purple Top Strap Leaf.....	23,180
Radish:			<u>39,676</u>
Early Scarlet Turnip.....	4,337		
Early Dark Red.....	5,808		
Improved Chartier.....	13,796		
Long White Vienna.....	4,637		
French Breakfast.....	3,856		

EXHIBIT B.—*Statement showing packages and packets of vegetable seeds put up by contractor.*

	Packages.	Packets.
Seeds sent out by contractor, 5 packets to the package.....	6,490,731	32,453,655
Seeds sent out by contractor, 6 packets to the package.....	729,225	4,375,350
Total seeds sent out by the contractor.....	7,219,956	36,829,005
Seeds turned over to the Department by the contractor, 5 packets to the package.....	94,162½	470,811
		<u>37,299,816</u>
Seeds turned over to the Department by the contractor, not in packages.....		265,307
Total seeds accounted for.....	7,314,118½	37,565,123
Total seeds required by contract.....		37,299,816
Seeds furnished by contractor in excess of his contract.....		265,307

EXHIBIT C.—*Results of germination tests.*

Family.	Sample number.	Germination.
Bean:		
Refugee.....	9	96.5
Do.....	71	90.5
Do.....	104	70.5
Do.....	145	97.5
Do.....	200	99
Do.....	237	96
Do.....	265	100
Do.....	268	95
Do.....	270	99.5
Do.....	275	95
Do.....	286	96
Do.....	281	99
Do.....	291	99.5
Extra Early Red Valentine.....	105	99
Do.....	173	99.5
Do.....	199	99
Do.....	215	98.5
Do.....	264	97
Do.....	269	97
Do.....	273	99
Do.....	277	74.5
Do.....	279	99.5
Improved Golden Wax.....	184	97
Do.....	202	99
Wardwell's Kidney Wax.....	183	98
Do.....	201	98
Do.....	238	98
Stringless Green Pod.....	160	98.5
Do.....	182	98
Do.....	266	99
Early Mohawk.....	159	97.5
Do.....	185	93
Do.....	203	98.5
Do.....	257	95
Do.....	267	96
Long Yellow Six Weeks.....	103	98.5
Do.....	258	98.5
Refugee Wax.....	271	98.5
Do.....	276	98
Giant Stringless Green Pod.....	278	99
Do.....	282	100
Currier's Rust Proof.....	272	99
Beet:		
Egyptian.....	32	132
Eclipse.....	76	157.5
Do.....	100	154
Bastian's Red Turnip.....	33	172
Do.....	80	150.5
Do.....	169	123.5
Dewing's Blood Turnip.....	285	177
Early Edmand.....	34	153
Do.....	75	150
Do.....	168	152.5
Long Dark Blood.....	35	175.5
Corn:		
Early Cory.....	154	98.5
Red Cory.....	152	97.5
Early Minnesota.....	108	83.5
Do.....	110	64
Do.....	153	94.5
Stowell's Evergreen.....	262	77.5
Crosby's Early.....	70	81.5
Do.....	111	74
Do.....	116	95.5
Do.....	205	94
Do.....	292	84.5
Do.....	293	.....
Country Gentlemen.....	241	80.5
Ne Plus Ultra.....	242	94.5
Zigzag Evergreen.....	115	84.5
Do.....	204	90.5
Old Colony.....	195	88.5
Do.....	196	90.5
Do.....	197	90
Do.....	206	97
Do.....	261	79.5
Cucumber:		
Long Green.....	122	92.5
Do.....	247	76.5
Do.....	190	98
White Spine.....	42	92
Do.....	43	92
Do.....	44	77.5

EXHIBIT C.—*Results of germination tests*—Continued.

Family.	Sample number.	Germination.
Cucumber—Continued.		
White Spine.....	47	94
Do.....	141	94.5
Do.....	248	92
Do.....	209	76.5
Early Green Prolific.....	68	90
Do.....	133	96
Do.....	143	83.5
Do.....	250	85.5
Boston Pickling.....	46	90
Do.....	135	89.5
Do.....	130	92.5
Do.....	249	79
Lettuce:		
Self-folding White Cos.....	25	95.5
Do.....	89	96.25
Hanson.....	26	95.5
Do.....	91	100
B. S. Simpson.....	90	97.5
Do.....	94	97.5
Early Prize Head.....	92	99.25
Do.....	93	95
California Cream Butter.....	260	97.75
Melon (musk):		
Paul Rose.....	45	96.5
Do.....	120	92
Do.....	140	89.5
Do.....	144	91
Do.....	251	93.5
Osage.....	62	62.5
Banquet.....	69	95.5
Do.....	253	88.5
Rocky Ford.....	63	94.5
Do.....	64	92.5
Do.....	65	97.5
Do.....	66	96
Do.....	67	95.5
Do.....	136	94
Do.....	142	92.5
Do.....	191	90.5
Do.....	216	91
Do.....	246	88.5
Netted Gem.....	234	96
Emerald Gem.....	61	86
Do.....	132	91
Hackensack or Turks Cap.....	231	96
Extra Early Hackensack.....	232	98
Small Green Nutmeg.....	227	95.5
Melon (water):		
Boss.....	119	87
Do.....	189	86
Mountain Sweet.....	39	90
Do.....	40	97
Do.....	41	85.5
Do.....	117	85
Florida Favorite.....	58	81.5
Do.....	59	94.5
Do.....	131	90.5
Do.....	134	87
Do.....	188	84.5
Rattlesnake.....	55	91.5
Do.....	56	98
Do.....	57	90.5
Do.....	194	94.5
Monte Cristo.....	121	85.5
Do.....	210	84.5
Kolb's Gem.....	118	92
Do.....	193	86
Do.....	208	89
Do.....	226	91.5
Onion:		
Large Red Wethersfield.....	95	81.5
Yellow Globe Danvers.....	96	80.5
Extra Early Red Flat.....	24	80
Do.....	97	82.5
Australian Brown.....	23	86.5
Yellow Danvers.....	22	85
Parsley:		
Extra curled.....	114	57.25
Do.....	124	65
Do.....	158	64
Do.....	164	54.5
Do.....	170	57.5
Do.....	181	63.5

EXHIBIT C.—*Results of germination tests*—Continued.

Family.	Sample number.	Germination.
Parsley—Continued.		
Extra curled	221	45.75
Do	274	42.5
Do	288	57.5
Do	290	75.5
Plain or Single	38	76.25
Do	165	46
Do	166	62.25
Do	171	60
Do	172	62.5
Parsnip:		
Hollow Crown	78	85
Do	167	23.5
Do	233	80.5
Do	283	69
Improved Half Long	81	60.5
Do	148	84.5
Do	280	79.25
Do	287	78.5
Do	228	94
Pea:		
American Wonder	239	89
Hosford's Market Garden	12	97
Do	163	98
Abundance	162	98.5
Do	13	97.5
Pride of the Market	72	98
Do	87	93.5
Do	263	90
McLean's Advancer	218	96.5
Everbearing	198	95
Do	240	91
Premium Gem	88	82.5
Radish:		
Early Scarlet Turnip	21	97.5
Do	149	93
Early Dark Red	20	96
Improved Chartier	17	97
Do	83	98.5
Long White Vienna	19	93
French Breakfast	18	98.5
Half Long Dark Scarlet	84	96.5
Do	157	96.5
Do	180	96.5
Scarlet Olive	85	99
White Top Scarlet Turnip	86	97.5
Spinach:		
Curled Savoy	16	74
Prickly	11	80
Do	15	83.5
Do	230	77.5
Long Standing Prickly	10	93
Prickly Winter	79	89
Bloomsdale	8	87.5
Squash:		
Hubbard	54	83.5
Do	186	94.5
Boston Marrow	50	99.5
Do	51	94
Do	52	94.5
Do	53	95.5
Do	112	98
Do	123	96.5
Do	129	90.5
Do	137	94
Do	138	97.5
Do	139	95
Do	245	76
Do	252	97
Giant Summer Crookneck	60	96.5
Giant White Bush	48	90.5
Do	49	92
Mammoth White Bush	128	93
Do	187	91.5
Do	192	98.5
Do	207	91.5
Do	244	95.5
Tomato:		
Beauty	102	87
Do	211	97
Do	289	88.25
Perfection	14	87.5
Do	219	91

EXHIBIT D.—Table showing deductions made on account of seeds which fell below standard vitality requirements.

Family.	Kind.	Inspector's number.	Weight in pounds.	Per cent below standard.	Amount deducted.
Bean	Refugee	104	12,047	21.67	\$49.08
Do	Red Valentine	277	7,227	17.22	23.40
Beet	Egyptian	32	6,731	5.71	115.61
Corn	Crosby's Early	70	25,571	4.12	25.28
Do	Early Minnesota	108	9,187	1.78	3.92
Do	do	110	7,006	24.70	41.53
Do	Crosby's Early	111	2,959	11.18	7.94
Do	Zigzag Evergreen	115	40,311	.59	5.71
Do	Country Gentleman	241	36,286	5.29	46.06
Do	Ne Plus Ultra	242	38,284	12.35	113.47
Do	Old Colony	261	24,864	6.47	38.61
Do	Stowell's Evergreen	262	48,234	8.82	102.10
Do	Crosby's Early	292	1,975	.59	.28
Cucumber	White Spine	44	2,978	8.82	98.76
Do	Green Prolific Pickling	143	3,862	1.77	25.70
Do	Improved White Spine	209	890	10.00	33.46
Do	Long Green	247	2,751	3.53	36.51
Do	Boston Pickling	249	978	7.06	25.96
Do	Green Prolific	250	1,014	1.17	4.46
Muskmelon	Osage	62	1,506	26.47	149.89
Parsley	Extra Double Curled	124	1,118	6.19	32.53
Do	Extra Curled	158	1,751	7.64	62.87
Do	do	164	3,194	22.14	332.36
Do	Plain or Single	165	4,557	27.14	581.28
Do	Plain	166	2,043	10.16	97.56
Do	Extra Curled	170	806	17.02	64.48
Do	Plain	171	2,427	13.41	152.97
Do	do	172	2,241	9.80	103.22
Do	Extra Curled	181	108	8.36	4.24
Do	do	221	1,343	34.64	218.65
Do	do	274	906	39.64	168.80
Do	do	288	900	7.14	30.20
Parsnip	Improved Half Long	81	3,695	14.20	246.60
Pea	Premium Gem	88	14,277	8.33	22.96
Do	American Wonder	239	14,677	1.11	3.28
Spinach	Savoy	16	9,597	1.33	47.99
Squash	Improved Hubbard	54	1,051	1.76	6.96
Do	Boston Marrow	245	291	10.59	11.59
Tomato	Acme	106	175	6.63	13.09
Turnip	Early Dwarf Flat Dutch	77	7,700	7.19	166.52
Total deductions.					3,316.88

Before making a final settlement with the Henry Philipps Seed and Implement Company the foregoing facts regarding the vitality tests and the deductions to be made thereon were submitted to the Comptroller for decision as to whether or not full payment could be made. The Comptroller ruled that the deductions must be made in accordance with the contract, but that the Government should pay for all seed that it used on the regular contract basis of deduction, even if this seed did fall 25 per cent below the standard required. In other words, the Government could not refuse to pay for seed which it used, even though under the contract it was empowered to confiscate such seed.



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FLOWER SEEDS.

The flower seeds were all supplied as per contract in kinds and quantities as given below:

Kinds and quantities of flower seeds on contract.

Name.	Pounds of seed.	Packets of seed to pound.	Number of packets.
Alyssum, sweet.....	100	500	50,000
Aster, choice double varieties, mixed colors.....	100	500	50,000
Balsam, double flowering.....	62½	800	50,000
Candytuft, mixed colors.....	100	500	50,000
Canna, mixed, large flowering type.....	390	128	49,920
Dianthus, double, mixed, China.....	50	1,000	50,000
Gaillardia, mixed colors.....	62½	800	50,000
Larkspur (Delphinium), mixed colors.....	100	500	50,000
Linum grandiflorum, rubrum.....	125	400	50,000
Marigold, mixed colors (pot).....	83½	600	50,100
Mignonette, plain.....	83½	600	50,100
Nasturtium, dwarf, mixed colors.....	250	200	50,000
Pansy, German, mixed colors.....	50	1,000	50,000
Petunia, fine mixed colors, hybrid blotched and striped.....	42	1,200	50,400
Phlox drummondii, grandiflora.....	100	500	50,000
Portulaca, single, mixed colors.....	50	1,000	50,000
Stocks, double dwarf German, ten weeks.....	50	1,000	50,000
Sweet peas, mixed colors.....	782	64	50,048
Sweet williams, mixed colors.....	100	500	50,000
Zinnia, double, mixed colors.....	100	500	50,000
Total pounds and packets.....	2,781	.....	1,000,568

COMBINATIONS.

The flower seeds were put up in the following combinations:

First combination.—Aster, candytuft, dianthus, marigold, mignonette.

Second combination.—Nasturtium, pansy, stock, sweet pea, sweet william.

Third combination.—Sweet alyssum, balsam, canna, gaillardia, larkspur.

Fourth combination.—Linum grandiflorum, petunia, phlox, portulaca, zinnia.

Besides the flower seeds thus contracted for, the Department purchased seed and put up 50,000 additional packages to supply the large demand on the part of Congressmen for flower seed.

COTTON SEED.

In order to make the distribution of cotton seed more useful to the South, new and little-known varieties were selected that had already proved valuable in some localities. The quantity sent to each individual was also increased to 1 peck, in order that a thorough trial of the variety might be made.

Every peck package contained a circular, setting forth the plan of distribution and giving descriptions of each variety and cultural directions. A franked postal card was also inclosed on which those planters who were willing to cooperate with the Department in testing varieties could return their names. About 5,000 cards have been received, and a report blank will be sent to every planter who has signified his willingness to report.

Acting on the advice of Dr. H. J. Webber, the Department expert on cotton, the varieties of cotton distributed were Braddy, Christopher,

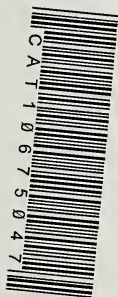
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CAT10675047

Congressional seed distribution
1 Ag855C

1901
1901

Batch: NAL16_mono_1Ag85pt3



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